Exercise 1: Default Blink

Purpose: Verify Arduino Uno equipment and program is working correctly.

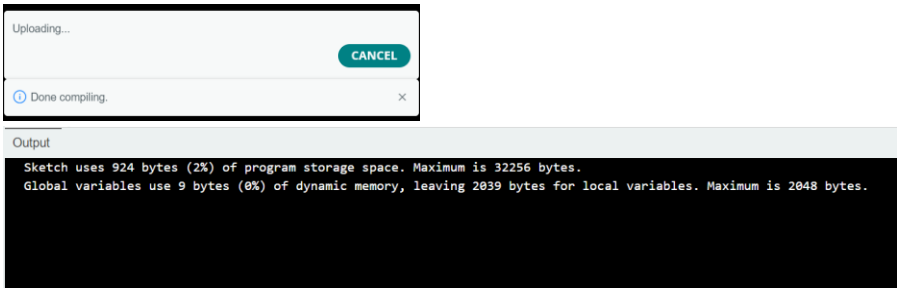
Instructions

1. Open the Arduino IDE.
   Window Key → Type “Arduino IDE”.
2. Create a New Sketch.
   File → New Sketch.
3. Navigate to LEDBlink.cpp and copy the contents to the Arduino IDE text area.
   Open the file → Select All (CTRL+A) → Copy (CTRL+C).
   Open Arduino IDE Window → Select Text Area → Paste (CTRL+V).
4. Connect the Arduino Uno to a USB port.
5. Select Arduino Uno from the dropdown menu.

6. Click the Verify button in the top left menu.

7. Click the Upload button in the top left menu.

8. Observe the messages in the Output window below.



9. Inspect the Arduino Uno device.
   A small onboard amber LED labelled “L” should now be blinking.
10. Modify LED_DELAY in the Arduino Sketch using the following list.
    a. `#define LED_DELAY 200`
    b. `#define LED_DELAY 100`
    c. `#define LED_DELAY 50`
    d. `#define LED_DELAY 1000`
11. For each entry, upload the sketch and observe the change in frequency of the LED.